

Rocks ▪ *Guided Reading and Study*

Sedimentary Rocks

This section describes how sedimentary rocks form and how they are classified and used.

Use Target Reading Skills

As you read about sedimentary rocks, use the headings to complete the outline below.

Sedimentary Rocks
I. From Sediment to Rocks
A. Erosion
B. _____
C. _____
D. Cementation
II. Types of Sedimentary Rock
A. _____
B. Organic Rocks
C. _____
D. _____
III. _____

From Sediment to Rock

- What remains of living things may sediment include? _____

- Small, solid pieces of material that come from rocks or living things are called _____.
- Is the following sentence true or false? Sedimentary rocks form from particles deposited by water and wind. _____

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Sedimentary Rocks *(continued)*

4. List three forces that can carry sediment.

a. _____

b. _____

c. _____

Match the process with its description.

Process

Description

_____ 5. erosion

_____ 6. deposition

_____ 7. compaction

_____ 8. cementation

a. Dissolved minerals glue sediments together.

b. Sediments are pressed together in layers.

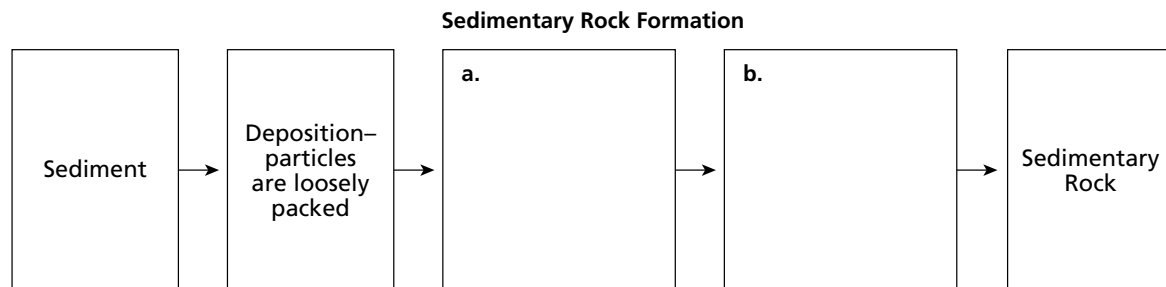
c. Water or wind loosen and carry away fragments of rock.

d. Sediments settle out of water or wind.

9. What happens to rock fragments and other materials carried by water?

10. The process in which thick layers of sediment press down on the layers beneath them is called _____.

11. Complete the flowchart to show how sediment is turned into sedimentary rock and what happens to it at each step.



c. Describe what happens to sediment as it is changed to sedimentary rock. _____

12. Is the following sentence true or false? It takes millions of years for sedimentary rock to form. _____

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Types of Sedimentary Rock

13. How do geologists classify sedimentary rock? _____

14. List the three major groups of sedimentary rock.

a. _____

b. _____

c. _____

15. Is the following sentence true or false? The same process forms all types of sedimentary rock. _____

16. Is the following sentence true or false? Clastic rocks form when rock fragments are squeezed together. _____

17. How are clastic rocks classified? _____

18. Complete the table to show the different materials from which clastic rock forms.

How Clastic Rock Forms	
Type of Clastic Rock	Material From Which It Forms
a.	Tiny particles of clay
b.	Small particles of sand
c.	Different-sized rock fragments

d. How are the types of clastic rocks shown in the table similar and different? _____

19. The type of rocks that form where the remains of plants and animals are deposited in thick layers is called _____ rock.

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Sedimentary Rocks *(continued)*

20. List two important organic rocks.

a. _____

b. _____

21. Organic rock that forms from the remains of swamp plants buried in water is _____.

22. How does organic limestone form? _____

23. Circle the letter of each sentence that describes a way that chemical rocks can form.

a. Minerals that are dissolved in a solution crystallize.

b. Sediments of plants and animals form oil and other chemicals in rock.

c. Mineral deposits form when seas or lakes evaporate.

d. Tiny particles of clay are cemented together with chemicals.

24. Is the following sentence true or false? Some limestone is considered to be a chemical rock. _____

25. Rock salt crystallizes from the mineral _____.

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Uses of Sedimentary Rocks

26. Why have sandstone and limestone been used as building materials for thousands of years? _____

27. Is the following sentence true or false? The White House in Washington, D.C., is built of limestone. _____
28. What are some ways that builders today use sandstone and limestone?

29. Is the following sentence true or false? Limestone is used for making cement. _____